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| APPLICATION NO. | FILING | DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------|-----------|------------|----------------------|---------------------|-------------------------------|--|
| 10/630,355 | 07/30 | /2003 | Carsten Momma | 117163.00077 | 117163.00077 9258 EXAMINER | |
| 21324 7 | 7590 | 11/30/2005 | | EXAM | | |
| HAHN LOES | SER & PAI | RKS, LLP | | PELLEGRINO, BRIAN E | | |
| One GOJO Pla | za | | | | | |
| Suite 300 | | | | ART UNIT | PAPER NUMBER | |
| AKRON OH | 44311-107 | 16 | • | 3738 | | |

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | | |
|---|--|--|---|--------------|--|--|--|--|
| | | 10/630,355 | MOMMA ET AL. | MOMMA ET AL. | | | | |
| | Office Action Summary | Examiner | Art Unit | | | | | |
| | | Brian E Pellegrino | 3738 | | | | | |
| Period fo | The MAILING DATE of this communication apport | pears on the cover sheet t | vith the correspondence address - | - | | | | |
| THE I - Exter after - If the - If NO - Failu Any r | ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl re to reply within the set or extended period for reply will, by statute the period by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a y within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become | a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133). | ition. | | | | |
| Status . | | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on <u>08 September 2005</u> . | | | | | | | |
| 2a)⊠ | This action is FINAL . 2b) This | | | | | | | |
| 3) | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Dispositi | on of Claims | | | | | | | |
| 4) ☐ Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) 16-25,30 and 31 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 and 26-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | | | | |
| Applicati | on Papers | | | | | | | |
| 9)[] | The specification is objected to by the Examine | er. | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| Attachmen | t(s) | | | | | | | |
| 1) Notice 2) Notice 3) Inform | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/8/05. | Paper N | v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,2,5-13,26-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Wu et al. (6254632). Wu et al. disclose (Fig. 2B) a stent having a base body with a plurality (col. 8, lines 50-56) of microdevices **200** that are raised out to form a microcannula **218** on the outer surface to penetrate into the vessel wall, col. 6, lines 13-17. Wu also discloses the diameter and length of the microcannulae can be 100μm for both dimensions, col. 11, lines 63-66. Fig. 4A shows a cover layer **420** of biodegradable material (col. 6, lines 33-42) that closes the active substance **410** in the deposit. The microdevices are fully capable of being applied using hybrid technology. Wu additionally discloses the active substance is liberated once the stent is implanted and the microcannulae engage the vessel wall, col. 6, lines 18-26. Wu discloses the stent can be made from a biodegradable material and from a magnesium alloy, col. 4, lines 43,44,47,48,54.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 3,4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. '632. Wu et al. is explained supra. Wu does disclose the lengths or depths of the

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microcannulae can be any dimension depending on the amount of drug desires to be

delivered, col. 6, lines 61-66. However, Wu fails to disclose the lengths of the

microcannulae to be 180μm-250μm. It would have been an obvious matter of design

choice to modify the length of the microcannulae, since applicant has not disclosed that

using a length of 150μm or 180μm provides any advantage, or solves a stated problem,

or is used for any particular purpose. One of ordinary skill in the art, furthermore, would

have expected Applicant's invention to perform equally well with the length taught by

Wu et al. or the claimed lengths in claim(s) 3,4 because both stents perform the same

function of delivering a therapeutic substance to a vessel and anchoring the stent in the

wall.

Claims 14,15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. '632 in view of Hossainy et al. (6287628). Wu et al. is explained supra.

However, Wu fails to disclose the use of a biodegradable drug carrier to hold the active

substance. Hossainy et al. teach that impregnated polymers can be used to hold

therapeutic materials to place in the microcannulae (col. 9, lines 21-25) and that

biodegradable carriers can be used, col. 10, lines 50-52, 57-59. It would have been

obvious to one of ordinary skill in the art to use a biodegradable carrier to hold the drug

and fill the microcannulae as taught by Hossainy in the stent of Wu et al. such that it

degrades over time and has a controlled release rate at the implantation site.

Response to Arguments

Applicant's arguments filed 9/8/05 have been fully considered but they are not

persuasive. In response to applicant's argument that the Wu device does not penetrate

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into the media of the vessel and the "microcannulae structure" is for a different reason, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. It is noted on page 4 of Arguments/Remarks that the Applicant admits that the Wu device penetrates the vessel wall. However, Applicant argues that the microcannulae of Wu do not have a length as claimed. However, Applicant has failed to define what the claimed length is measured relative to. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., dimensions of the microcannulae being measured from the surface of the stent) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). It should be noted that the term "microcannulae length" has not been given any special definition.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian E Pellegrino whose telephone number is 571-272-4756. The examiner can normally be reached on M-Th (6:30am-4pm) and alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached at 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC 3700, AU 3738

BRIAN E. PELLEGRINO PRIMARY EXAMINER

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